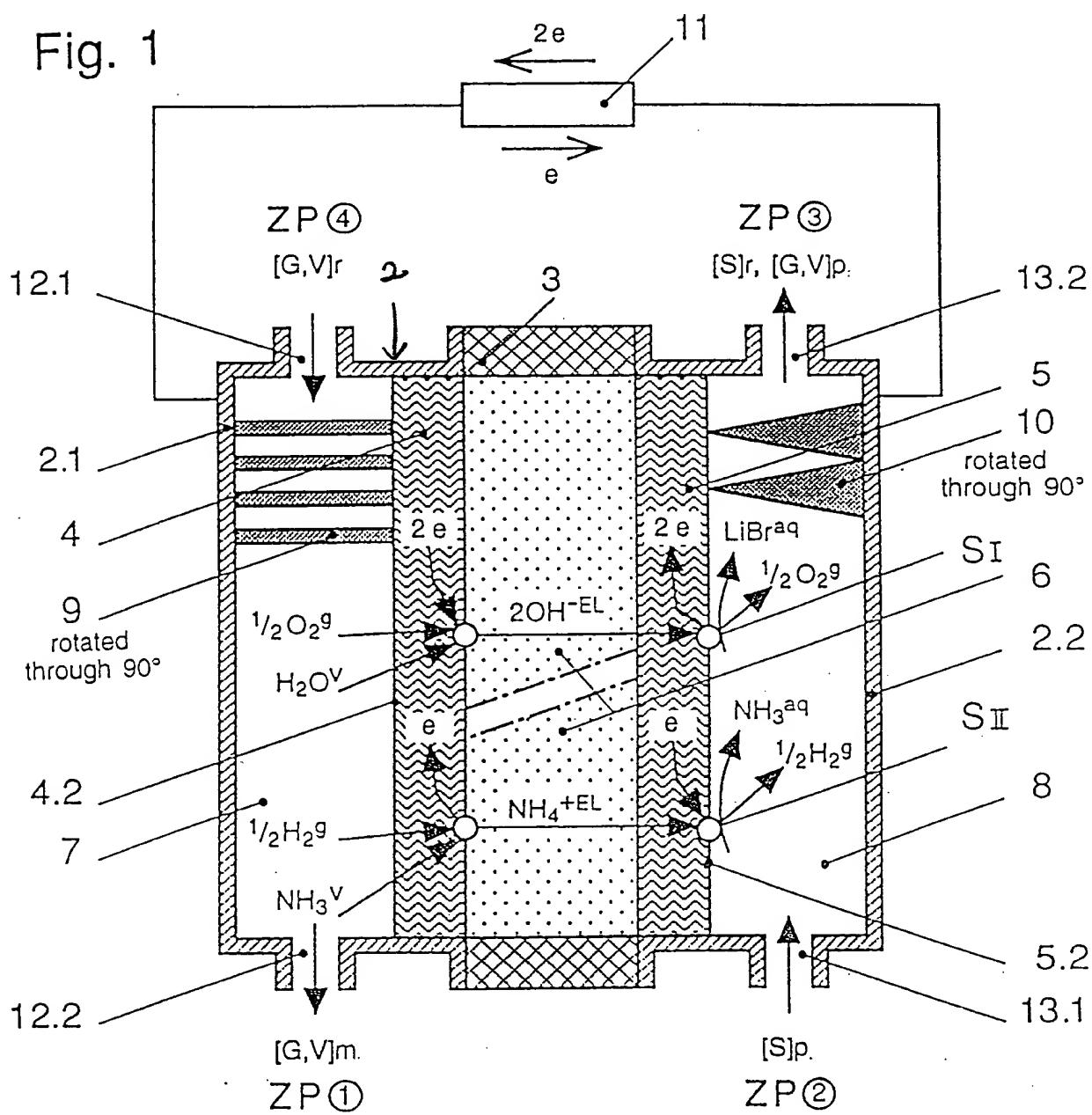


Fig. 1



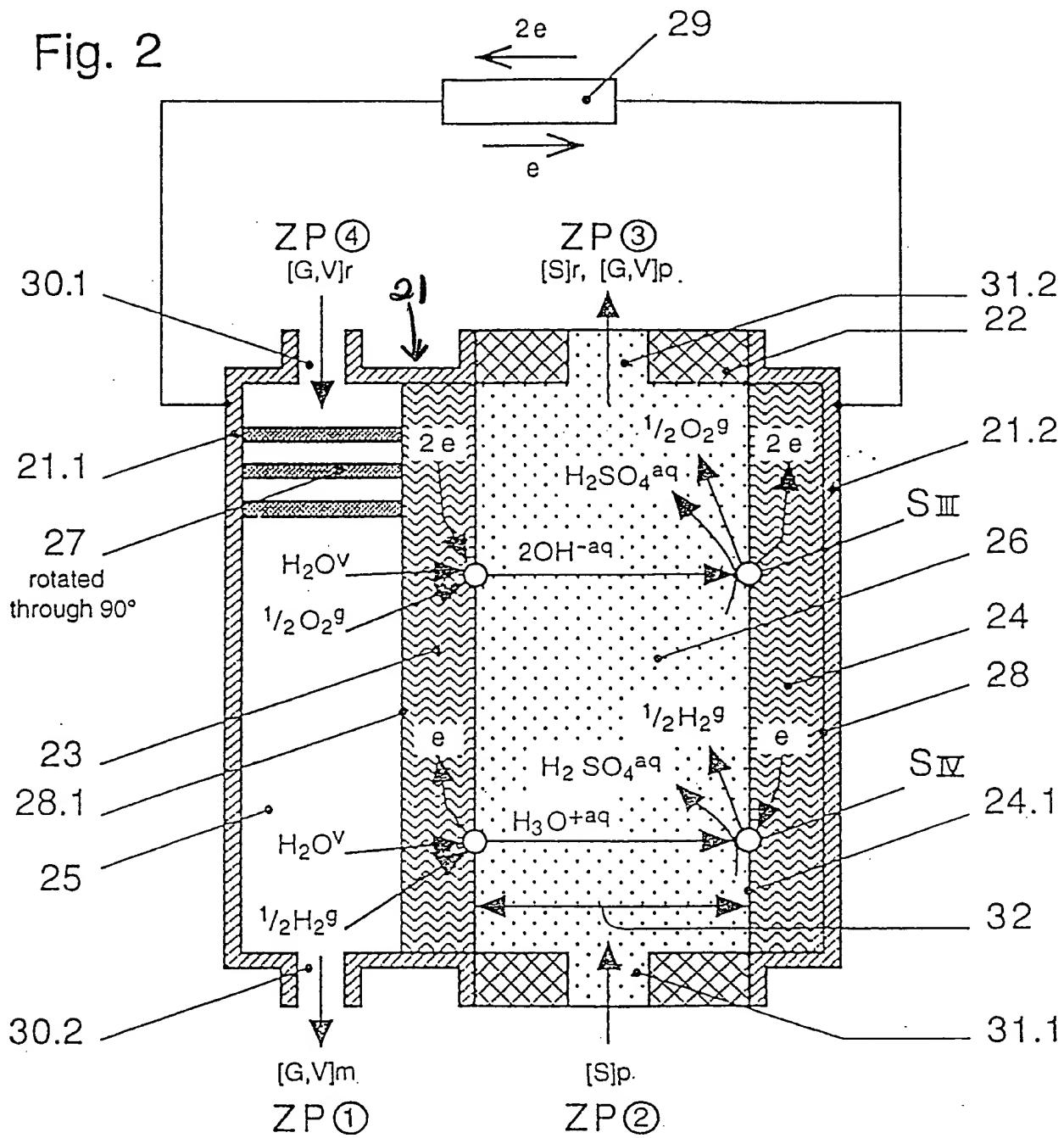
ZP ①: SI $|\text{NH}_3^V, \text{H}_2^g|$ $[\text{P}^V, \text{P}^g, \text{T}, \xi^V]$
 SII $|\text{H}_2\text{O}^V, \text{O}_2^g|$

ZP ②: SI $|\text{NH}_3^{\text{aq}}|$ $[\text{P}^{\text{aq}}, \text{T}, \xi^{\text{aq}}]$
 SII $|\text{LiBr}^{\text{aq}}|$

ZP ③: SI $|\text{NH}_3^{\text{aq}}, \text{NH}_3^V, \text{H}_2^g|$ $[\text{P}^{\text{aq}}, \text{P}^V, \text{P}^g, \text{T}, \xi^{\text{aq}}, \xi^V]$
 SII $|\text{LiBr}^{\text{aq}}, \text{O}_2^g, \text{H}_2\text{O}^V|$

ZP ④: SI $|\text{NH}_3^V, \text{H}_2^g|$ $[\text{P}^V, \text{P}^g, \text{T}, \xi^V]$
 SII $|\text{H}_2\text{O}^V, \text{O}_2^g|$

Fig. 2



$\text{S}_{\text{III}} \quad |\text{H}_2\text{O}^{\text{v}}, \text{H}_2^{\text{g}}| \text{H}_3\text{O}^{\text{+}}, \text{EL} \quad |\text{H}_2\text{SO}_4^{\text{aq}}, \text{H}_2^{\text{g}}|$

$\text{S}_{\text{IV}} \quad |\text{H}_2\text{O}^{\text{v}}, \text{O}_2^{\text{g}}| \text{OH}^{\text{-}}, \text{EL} \quad |\text{H}_2\text{SO}_4^{\text{aq}}, \text{O}_2^{\text{g}}|$

State points (ZP) in accordance with Fig. 3